

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) The A floor panel ~~in the form of comprising~~ a rectangular plate which, at least at two opposite sides, is provided with coupling parts in the form of a tongue at the one side and a groove at the opposite side,  
  
~~wherein these the coupling parts comprising are provided with~~ integrated mechanical locking means in the form of a protrusion shaped on the tongue and a lip bordering the groove which is formed by the extraction of the material along the a longer arm of the groove,  
  
~~wherein the a~~ bearing surface of the lip is being inclined to the center and downwards,  
  
~~characterized in that~~ the bearing surface (9) of the lip (8) at the longer arm of the groove (5) is being concave on the an arc with the a first radius ( $r_1$ ), the a point of engagement of which is situated at the an upper border of the panel (1),  
  
~~whereas~~ the protrusion (7) of the groove (6) has having, in cross-section, the form of a circular section with the a third radius ( $r_3$ ) which is shorter than the first radius, and  
  
~~wherein the a~~ lower part of the lip (8) and at the a lower part of the panel (1) from the side of the circular protrusion (7) have having the second bearing surfaces (9') inclined in relation to the a vertical plane into one direction, at the a first acute angle ( $\alpha$ ).  
  
2. (Currently amended) The floor panel according to claim 1, ~~characterized in that wherein~~ the ratio of the third radius ( $r_3$ ) to the first radius ( $r_1$ ) is substantially equal to about 1:3.

3. (Currently amended) The floor panel according to claim 1, ~~characterized in that~~ wherein the first acute angle ( $\alpha$ ) is substantially equal to  $30^\circ$  approximately.
4. (Currently amended) The floor panel according to claim 1, ~~characterized in that~~ wherein the an internal surface (10) of ~~the~~ a recess along the longer arm of the groove, situated close to the lip (8), is concave on ~~the~~ an arc with ~~the~~ a second radius ( $r_2$ ), which is longer than the first radius ( $r_1$ ).
5. (Currently amended) The floor panel according to claim 4, ~~characterized in that~~ wherein ~~the~~ a ratio of the first radius ( $r_1$ ) to the second radius ( $r_2$ ) is substantially equal to 1:1.5 approximately.
6. (Currently amended) The floor panel according to claim 1, ~~characterized in that it has~~ comprising at least one longitudinal groove (15) which is situated from the bottom of the panel.
7. (Currently amended) The floor panel according to claim 1, ~~characterized in that~~ wherein ~~a~~ the bearing surface (9) of the lip (8), near the upper edge of the lip, turns into a flat surface, which is inclined in relation to the vertical plane at ~~the~~ a second acute angle ( $\beta$ ), forming a nose (16).
8. (Currently amended) The floor panel according to claim 7, ~~characterized in that~~ wherein the second acute angle ( $\beta$ ) is substantially equal to  $15^\circ$  approximately.
9. (Currently amended) The floor panel according to claim 7, ~~characterized in that~~ wherein ~~a~~ the second internal surface (17) of ~~the~~ a recess in ~~the~~ a lower arm of the groove (5) is flat and inclined in relation to ~~the~~ a horizontal plane at ~~the~~ a third acute angle ( $\gamma$ ),  
wherein the second internal ~~plane~~ surface (17), near the groove (5), turns into an offset (18) whose surface is flat, inclined in relation to ~~the~~ a vertical plane at ~~the~~ a fourth acute angle ( $\delta$ ).

10. (Currently amended) The floor panel according to claim 9, ~~characterized in that~~ wherein the third acute angle ( $\gamma$ ) is substantially equal to  $20^\circ$  ~~approximately~~ and the fourth acute angle ( $\delta$ ) is substantially equal to  $38^\circ$  ~~approximately~~.
11. (Currently amended) The floor panel according to claim 1, ~~characterized in that on~~ wherein the bearing surface (9) ~~it is provided with~~ comprises a longitudinal recess shaped like a trough (19), in cross-section, the surface of which is concave on ~~the~~ an arc of the third radius ( $r_3$ ) which is equal to ~~the~~ a radius of the circular protrusion (7).
12. (Currently amended) The floor panel according to claim 11, ~~characterized in that~~ wherein the second internal surface (17) is flat and inclined in relation to the horizontal plane at the third acute angle ( $\gamma$ ),  
~~and that this~~ wherein the second internal surface, near the groove (5), turns into an offset (18) of flat surface inclined in relation to the vertical plane at the fourth acute angle ( $\delta$ ).
13. (Currently amended) The floor panel according to claim 12, ~~characterized in that~~ wherein the third acute angle ( $\gamma$ ) is substantially equal to  $20^\circ$  ~~approximately~~ ~~whereas~~ and the fourth acute angle ( $\delta$ ) is substantially equal to  $38^\circ$  ~~approximately~~.
14. (Currently amended) The floor panel according to claim 1, ~~characterized in that it is~~ wherein said floor panel is composed ~~made~~ of wood or wood derivative layerwise glued material.
15. (Currently amended) The floor panel according to claim 1, ~~characterized in that on~~ wherein the short sides at the one edge ~~it is provided with~~ comprise a groove in the a near-rectangular form, in cross-section,  
wherein the lower arm of ~~which is provided with~~ the groove comprises a triangular recess (14) ~~whereas at the opposite side it is provided with the~~

comprises a second tongue (11) in the near-rectangular form, which is ~~provided with the~~ comprises a second protrusion (12) shaped like a triangle in its lower part.

16. (Currently amended) The floor panel according to claim 9, ~~characterized in that on~~ wherein the bearing surface (9) ~~it is provided with~~ comprises a longitudinal recess shaped like a trough (19), in cross-section, the surface of which is concave on the arc of the third radius ( $r_3$ ) which is equal to the radius of the circular protrusion (7).

17. (Currently amended) The floor panel according to claim 16, ~~characterized in that~~ wherein the second internal surface (17) is flat and inclined in relation to the horizontal plane at the third acute angle ( $\gamma$ ),  
~~and that this~~ wherein the second internal surface, near the groove (5), turns into an offset (18) of flat surface inclined in relation to the vertical plane at the fourth acute angle ( $\delta$ ).

18. (Currently amended) The floor panel according to claim 17, ~~characterized in that~~ wherein the third acute angle ( $\gamma$ ) is substantially equal to  $20^\circ$  ~~approximately whereas and~~ the fourth acute angle ( $\delta$ ) is substantially equal to  $38^\circ$  ~~approximately~~.

19. (Currently amended) The floor panel according to claim 7, ~~characterized in that on~~ wherein the short sides at the one edge ~~it is provided with~~ comprise a groove in the near-rectangular form, in cross-section,  
wherein the lower arm of ~~which is provided with~~ the groove comprises a triangular recess (14) whereas at the opposite side it is ~~provided with the~~ comprises a second tongue (11) in near-rectangular form, which is ~~provided with the~~ comprises a second protrusion (12) shaped like a triangle in its lower part.

20. (Currently amended) The floor panel according to claim 9, ~~characterized in that on~~  
wherein the short sides at the one edge ~~it is provided with~~ comprise a groove in the near-  
rectangular form, in cross-section,  
wherein the lower arm of ~~which is provided with~~ the groove comprises a  
triangular recess (14) whereas at the opposite side it ~~is provided with the~~  
comprises a second tongue (11) in the near-rectangular form, which ~~is provided~~  
~~with the~~ comprises a second protrusion (12) shaped like a triangle in its lower  
part.
21. (Currently amended) The floor panel according to claim 11, ~~characterized in that on~~  
wherein the short sides at the one edge ~~it is provided with~~ comprise a groove in the near-  
rectangular form, in cross-section,  
wherein the lower arm of ~~which is provided with~~ the groove comprises a  
triangular recess (14) whereas at the opposite side it ~~is provided with the~~  
comprises a second tongue (11) in near-rectangular form, which ~~is provided with~~  
~~the~~ comprises a second protrusion (12) shaped like a triangle in its lower part.
22. (Currently amended) The floor panel according to claim 16, ~~characterized in that on~~  
wherein the short sides at the one edge ~~it is provided with~~ comprise a groove in the near-  
rectangular form, in cross-section,  
wherein the lower arm of ~~which is provided with~~ the groove comprises a  
triangular recess (14) whereas at the opposite side it ~~is provided with the~~  
comprises a second tongue (11) in near-rectangular form, which ~~is provided with~~  
~~the~~ comprises a second protrusion (12) shaped like a triangle in its lower part.